

Application No. 09/831,754
Reply to Office Action mailed July 3, 2003
Replacement Sheet

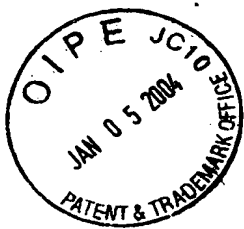
FIG. 14A

SEQ ID NO: 2

Seladin-1 cDNA sequence

Seladin-1 Length: 4248 April 28, 1998 14:10 Type: N Check: 8184 ..

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101 tggagcccg cgtgtcgcgt gccgtgtgcg cgctgctctt cctgctgtgg
151 gtgcgcctga aggggctgga gttcgtgctc atccaccagc gctgggtggt
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301 gagcagcgcg tgcgggacat ccagaagcag gtgcgggaat ggaaggagca
351 gggtagcaag accttcattgt gcacggggcg ccctggctgg ctactgtct
401 cactacgtgt cgggaagtac aagaagacac aaaaaaacat catgatcaac
451 ctgatggaca ttctggaagt ggacaccaag aaacagattg tccgtgtgga
501 gcccttggtg accatgggcc aggtgactgc cctgctgacc tccattggct
551 ggactctccc cgtgttgctt gagcttgatg acctcacagt ggggggcttg
601 atcatgggca caggcatcga gtcacatcc cacaagtacg gcctgttcca
651 acacatctgc actgcttacg agctggtcct ggctgatggc agctttgtgc
701 gatgcactcc gtccgaaaac tcagacctgt tctatgccgt accctggtcc
751 tgtgggacgc tgggtttcct ggtggscgct gagatccgca tcatccctgc
801 caagaagtac gtcaagctgc gtttcgagcc agtgcggggc ctggaggcta
851 tctgtgcaa gttcacccac gagtccagc ggaggagaa ccacttcgtg
901 gaaggyctgc tctactcctt ggatgaggct gtcattatga caggggtcat
951 gacagatcag gcagagccca gcaagctgaa tagcattggc aattactaca
1001 agccgtggtt ctttaagcat gtggagaact atctgaagac aaaccgagag
1051 ggcttgagat acattccctt gagacactac taccaccgcc acacgcgcag
1101 catcttcttg gagctccagg acatcatccc ctttggaac aacccatct
1151 tccgtacctt ctttggtggt atggtgcctc ccaagatctc cctcctgaag
1201 ctgacccagg gtgagaccct gcgcaagctg tacgagcagc accacgtggt
1251 gcaggacatg ctggtgcca tgaagtgcct gcagcaggcc ctgcacacct
1301 tccaaaacga cateccagtc taccatctt ggctgtgtcc gttcatcctg
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FIG. 14B

1401 catcgacatt ggagcatatg gggagccgcg tgtgaaacac tttgaagcca
1451 ggtcctgcat gaggcagctg gagaagtttg tccgcagcgt gcatggcttc
1501 cagatgctgt atgccgactg ctacatgaac cgggaggagt tctgggagat
1551 gtttgatggc tccttgatcc acaagctgcg agagaagctg ggttgccagg
1601 acgccttccc cgagggtgtac gacaagatct gcaaggccgc caggcactga
1651 gctggagccc gcctggagag acagacacgt gtgagtggtc aggcattctc
1701 ccttcaactca agcttggtcg ctttccatga tccacacttt caaagagaaa
1751 cccctccaga actccacccc tgaagagccc acaccacttt cctcctggtc
1801 tccagggggc agcccagtg aatggaaaga atgtgggatt tggagtga
1851 caagcctgag tccagttccc cgtttagaac tcattagctg tgtgactctg
1901 ggtgagtcce ttaacccctc tgagcccggg tctcttcatt agttgaaagg
1951 gatagtaata cctacttgca ggttggtgtc atctgagttg agcactggtc
2001 acattgaagg tgctgggtaa gtggtagctc ttgttgcttc ccgttcagcg
2051 tcacatctgc agtggagcct gaaaaggctc cacattaggt cacctgtgca
2101 cagccatggc tggaatgatg aaggggatac gctggagttg ccctgccatc
2151 gcctccatca gccagacgag gtcctcacag gagaaggaca gctcttcccc
2201 accctgggat ctcaggaggg cagccacgga gtggggaggc cccagatgcg
2251 ctgtgccaaa gccaggtccg aggccaaagt tctccctgcc atccttggtg
2301 ccgtcctgcc ccttctcctc tcatgcctgg gcctgcaggc ccacccagc
2351 caccactgag tccactcgga gtgccctgtg ttcctggaga aggcattcca
2401 gggttgaatc ttgtcccagc ctacgcctgg gacacctagg tggagagagt
2451 ggtctccgct ctgaattgga tccaggggac ctgggctcat tcttcttggc
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2651 gggctggaag aaaagagcat cgaacttgatt tctccaacca ctcatccctc
2701 tttttcttct tccaccact cccaccccca gctgtagtta atttcagtgc
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2851 tttatgcaac tctatcttaa gaactgccc gcctcagctg aaaacccgaa
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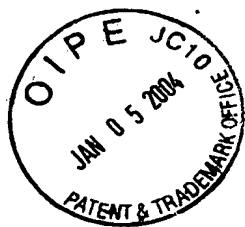


FIG. 15A

CDNA sequence comparison
KIAA0018/Seladin-1

```
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62  ggcgcgaaacccgcagcgcttaccgcgcggcgccgcacccatggagcccgc  111
   ||||||||||||||||||||||||||||||||||||||||||||||||
51  gtgtcgctggccgtgtgcgcgctgctcttcctgctgtgggtgcgccctgaa  100
   ||||||||||||||||||||||||||||||||||||||||||||||||
112  gtgtcgctggccgtgtgcgcgctgctcttcctgctgtgggtgcgccctgaa  161
   ||||||||||||||||||||||||||||||||||||||||||||||||
101  ggggctggagttcgtgctcatccaccagcgctgggtgttcgtgtgcctct  150
   ||||||||||||||||||||||||||||||||||||||||||||||||
162  ggggctggagttcgtgctcatccaccagcgctgggtgttcgtgtgcctct  211
   ||||||||||||||||||||||||||||||||||||||||||||||||
151  tcctcctgccgctctcgcttatcttcgatatactactacgtgcgcgcc  200
   ||||||||||||||||||||||||||||||||||||||||||||||||
212  tcctcctgccgctctcgcttatcttcgatatactactacgtgcgcgcc  261
   ||||||||||||||||||||||||||||||||||||||||||||||||
201  tgggtggtgttcaagctcagcagcgctccgcgcctgcacgagcagcgcg  250
   ||||||||||||||||||||||||||||||||||||||||||||||||
262  tgggtggtgttcaagctcagcagcgctccgcgcctgcacgagcagcgcg  311
   ||||||||||||||||||||||||||||||||||||||||||||||||
251  gcgggacatccagaagcaggtgcgggaatggaaggagcagggtagcaaga  300
   ||||||||||||||||||||||||||||||||||||||||||||||||
312  gcgggacatccagaagcaggtgcgggaatggaaggagcagggtagcaaga  361
   ||||||||||||||||||||||||||||||||||||||||||||||||
301  ccttcatgtgcacggggcgccctggctggctcactgtctcactacgtgtc  350
   ||||||||||||||||||||||||||||||||||||||||||||||||
362  ccttcatgtgcacggggcgccctggctggctcactgtctcactacgtgtc  411
   ||||||||||||||||||||||||||||||||||||||||||||||||
351  gggaagtacaagaagacacacaaaaacatcatgatcaacctgatggacat  400
   ||||||||||||||||||||||||||||||||||||||||||||||||
412  gggaagtacaagaagacacacaaaaacatcatgatcaacctgatggacat  461
   ||||||||||||||||||||||||||||||||||||||||||||||||
401  tctggaagtggacaccaagaacagattgtccgtgtggagcccttggtga  450
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462  tctggaagtggacaccaagaacagattgtccgtgtggagcccttggtga  511
   ||||||||||||||||||||||||||||||||||||||||||||||||
451  ccatgggcccaggtgactgccctgctgacctccattggctggactctccc  500
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512  ccatgggcccaggtgactgccctgctgacctccattggctggactctccc  561
   ||||||||||||||||||||||||||||||||||||||||||||||||
501  gtgttgccctgagcttgatgacctcacagtggggggcttgatcatgggcac  550
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562  gtgttgccctgagcttgatgacctcacagtggggggcttgatcatgggcac  611
   ||||||||||||||||||||||||||||||||||||||||||||||||
551  aggcacgcagtcacatcccacaagtacggcctgttccaacacatctgca  600
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612  aggcacgcagtcacatcccacaagtacggcctgttccaacacatctgca  661
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601  ctgcttacgagctggtcctggctgatggcagctttgtgcatgactccg  650
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651  tccgaaaactcagacctgttctatgccgtaccctggctcctgtgggacgct  700
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712  tccgaaaactcagacctgttctatgccgtaccctggctcctgtgggacgct  761
   ||||||||||||||||||||||||||||||||||||||||||||||||
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   ||||||||||||||||||||||||||||||||||||||||||||||||
762  gggtttcctggtggccgctgagatccgcacatccctgccaagaagtacg  811
   ||||||||||||||||||||||||||||||||||||||||||||||||
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FIG. 15B

751 tcaagctgcgttttcgagccagtgcggggcctggaggctatctgtgccaag 800
|||||
812 tcaagctgcgttttcgagccagtgcggggcctggaggctatctgtgccaag 861
801 ttcacccacgagtcacagcggcaggagaaccacttcgtggaagggctgct 850
|||||
862 ttcacccacgagtcacagcggcaggagaaccacttcgtggaagggctgct 911
851 ctactccctggatgaggctgtcattatgacaggggtcatgacagatgagg 900
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912 ctactccctggatgaggctgtcattatgacaggggtcatgacagatgagg 961
901 cagagcccagcaagctgaatagcattggcaattactacaagccgtggttc 950
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951 ttttaagcatgtggagaactatctgaagacaaaccgagagggcctggagta 1000
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1062 cattcccttgagacactactaccaccgccacacgcgcagcatcttctggg 1111
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1250 atccacgtctaccccatctggctgtgtccgttcatectgcccagccagcc 1299
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1312 atccacgtctaccccatctggctgtgtccgttcatectgcccagccagcc 1361
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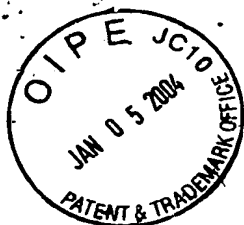


FIG. 15C

1550 gaggtgtacgacaagatctgcaaggccgcccaggcactgagctggagcccg 1599
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1600 cctggagagacagacacgtgtgagtggcaggcatcttcccttcaactcaa 1649
|||||
1662 cctggagagacagacacgtgtgagtggcaggcatcttcccttcaactcaa 1711
1650 gcttggctgctttcctagatccacactttcaaagagaaacccctccagaa 1699
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1700 ctcccaccctgacagcccaacaccaccttccctcctggcttccagggggca 1749
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1850 taaccctctgagcccggtctcttcattagttgaaagggatagtaatac 1899
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1900 ctacttgcaggttgttgcactctgagttgagcactggtcacattgaaggt 1949
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1962 ctacttgcaggttgttgcactctgagttgagcactggtcacattgaaggt 2011
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2300 ccactcggagtgccctgtgttccctggagaaggcattccagggttgaatct 2349
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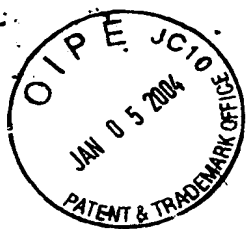
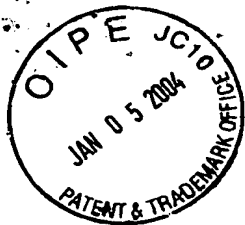


FIG. 15D

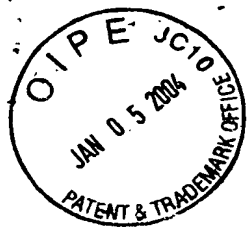
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3162 gtcagaggaaaaatgatccagtggacacttggggattatctgtcattcaa 3211



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FIG. 15E

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3200 tcatacctggcttgaggggaagcatctgtcttgatccaggtgccaga 3249
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|||||
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3662 ggccagagatgccagcagcctctgtcgcccttagtcatataacccaaatc 3711
3650 cagaccttatccacaacccgggggttggaaggaaggatattttggaatca 3699
|||||
3712 cagaccttatccacaacccgggggttggaaggaaggatattttggaatca 3761
3700 caccctccggttatgttgctccagtaaaatcttgccctggaaagaggcagt 3749
|||||
3762 caccctccggttatgttgctccagtaaaatcttgccctggaaagaggcagt 3811
3750 cttcttagcatggtgagctgagttcatggctttttttgtagccagtcct 3799
|||||
3812 cttcttagcatggtgagctgagttcatggctttttttgtagccagtcct 3861
3800 gtccctggccatccatgtgatgggttttgatggagttaaacttgatgcc 3849
|||||
3862 gtccctggccatccatgtgatgggttttgatggagttaaacttgatgcc 3911
3850 gtgggcagtgcatgtggaaagtatcagagtaagcctctcccctccagagc 3899
|||||
3912 gtgggcagtgcatgtggaaagtatcagagtaagcctctcccctccagagc 3961
3900 cctgagtttcttggtgcatgaagggttttctttagaatcagaattgtagc 3949
|||||
3962 cctgagtttcttggtgcatgaagggttttctttagaatcagaattgtagc 4011



Appln. No. 09/831,754
Reply to Office Action mailed July 3, 2003
Replacement Sheet

FIG. 15F

3950 cagtttctttggccagaaggatgaatacttggatattactgaaagggagg 3999
|||||
4012 cagtttctttggccagaaggatgaatacttggatattactgaaagggagg 4061
|||||
4000 ggtggagatgggtgtggcagtgatcgggtgtgtgatttttattttcttctt 4049
|||||
4062 ggtggagatgggtgtggcagtgatcgggtgtgtgatttttattttcttctt 4111
|||||
4050 tggatcatgggggccaaggagaaaggcatgaatcttccctgtcaggctctt 4099
|||||
4112 tggatcatgggggccaaggagaaaggcatgaatcttccctgtcaggctctt 4161
|||||
4100 acagccacaggcactgtgtctactgtctggaagacatgtccccgtggctg 4149
|||||
4162 acagccacaggcactgtgtctactgtctggaagacatgtccccgtggctg 4211
|||||
4150 tggggccgctgcttctgttttaaataaaaagtggcctgg 4186
|||||
4212 tggggccgctgcttctgttttaaataaaaagtggcctgg 4248
|||||